PATENT COOPERATION TREATY



To:

From the INTERNATIONAL SEARCHING AUTHORITY

Vossius & Partner VOSSIUS & PARTNER

PCT (DEC 2004

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

Siebertstrasse 4 D-81675 München GERMANY	1 5. März 2004		OR THE DECLARATION			
	Frist 12.5.04 bearb.: 28.4.6°	lg	(PCT Rule 44.1)			
REGISTERE	D MAIL					
HEGIOTE		Date of mailing (day/month/year) 12/03/2004				
Applicant's or agent's file reference						
H 1978 PCT S3		FORF	URTHER ACTION See paragraphs 1 and 4 below			
International application No.		International filing date (day/month/year)				
PCT/EP 03/06551		(54)////	20/06/2003			
Applicant						
MAX-DELBRÜCK-CENTRUM	FÜR MOLEKULARE MEDIZ	ZIN				
The applicant is hereby not	tified that the International Search	Report h	as been established and is transmitted herewith.			
Filing of amendments and	d statement under Article 19:		sternational Application (see Rule 46):			
When? The time limit for International Seat	filing such amendments is norma rch Report; however, for more de	lly 2 mont tails, see	hs from the date of transmittal of the the notes on the accompanying sheet.			
3	International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35		a.			
For more detailed instruc	tions, see the notes on the accor	mpanying	sheet.			
2. The applicant is hereby not Article 17(2)(a) to that effect	ified that no International Search at is transmitted herewith.	Report w	ill be established and that the declaration under			
3. With regard to the protest	t against payment of (an) addition	nal fee(s)	under Rule 40.2, the applicant is notified that:			
the protest together w applicant's request to	rith the decision thereon has been forward the texts of both the prote	transmitt est and th	ed to the International Bureau together with the e decision thereon to the designated Offices.			
no decision has been	made yet on the protest; the appl	icant will l	be notified as soon as a decision is made.			
4. Further action(s): The applica	ant is reminded of the following:		ete a company of the company of			
If the applicant wishes to avoid priority claim, must reach the In	or postpone publication, a notice	of withdra n Rules 90	will be published by the International Bureau. wal of the international application, or of the bis.1 and 90bis.3, respectively, before the			
Within 19 months from the priori	ty date, a demand for internationa to the national phase until 30 mor	al prelimin oths from	ary examination must be filed if the applicant the priority date (in some Offices even later).			
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.						

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Dominique Hundt

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WiPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46,4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been:filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification o (Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.					
H 1978 PCT S3 International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
international application (10)							
PCT/EP 03/06551	20/06/2003	19/06/2002					
Applicant	•						
MAX-DELBRÜCK-CENTRUM FÜR N	MOLEKIII.ARE MEDIZIN						
MAX-DELBROCK CENTROM FOR F	OBEKOLAKE FILDIZIA						
This International Search Report has beer according to Article 18. A copy is being tra	r prepared by this International Searching Auth nsmitted to the International Bureau.	nority and is transmitted to the applicant .					
This International Search Report consists It is also accompanied by	of a total of 8 sheets. a copy of each prior art document cited in this	report.					
Basis of the report							
 a. With regard to the language, the in language in which it was filed, unlended. 	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the					
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	ne international application furnished to this					
b. With regard to any nucleotide and	d/or amino acid sequence disclosed in the int	ternational application, the international search					
was carried out on the basis of the	sequence listing : nal application in written form.						
	rnational application in computer readable form	· 1.					
	o this Authority in written form.						
	this Authority in computer readble form.						
the statement that the sub	sequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the					
		identical to the written sequence listing has been					
2. X Certain claims were four	nd unsearchable (See Box I).						
3. X Unity of invention is lack	king (see Box II).						
4. With regard to the title,	·						
the text is approved as sul	omitted by the applicant.						
X the text has been establish	ned by this Authority to read as follows:						
PHARMACEUTICAL COMPOSI	TION COMPRISING CALCIUM CHA	NNEL BLOCKERS FOR THE					
TREATMENT OF PAIN							
		•					
5. With regard to the abstract,	to discount and the second						
the text is approved as sult the text has been establish within one month from the	omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.					
6. The figure of the drawings to be publi							
as suggested by the applie		X None of the figures.					
l. I because the applicant taile	ed to suggest a figure.	-					

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The invention relates to an agent for the medicamentous treatment of acute and chronic pain, in particular of allodynia and hyperalgesia.

Fields of application of the invention are medicine and the pharmaceutical industry. A new pharmaceutical composition for the treatment of acute and/or chronic pain, in particular allodynia and hyperalgesia provided, the pharmaceutical composition comprising calcium channel blockers which are suitable for blocking voltage-dependent calcium channels, in particular of the T-type, more preferably the CaV3.2 channel and/or of the L-type. Mibefradil and dihydropyridines can, for instance, be used as calcium channel blockers.

Box I Observations where certain claims were found unsearchable (Continuation of item 7 of inst sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-11
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: -

The subject-matter of present claim 1 (and the dependent claims 2, 3 and 5-11) is defined by means of the functional feature 'calcium channel blockers which are capable of blocking voltage-dependent calcium channels'.

Because of the character of the functional feature, it cannot be guaranteed that the performed search is complete.

It cannot be excluded that compounds fulfilling the requirements of the functional feature have not been identified as doing so in the prior art

If such compounds have not been identified in the application either, they have not been covered by the search.

Furthermore, the definition 'dihydropyridine' (claim 4) does not fulfil the requirements of Art. 5 and 6 PCT. It is unclear which compounds are encompassed by the above definition. The claim so lacks support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. The same applies to the definitions 'analogues' and 'esters' (claim 4).

The search has been carried out, based on the functional feature per se as well as the examples given in the application, the compounds defined in claim 3 as well as the compounds, partly defined by reference to other documents, mentioned on p. 3, last paragraph.

It is further pointed out that the substantive examination can only be carried out to the same extent as the search.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5),

page 3 of 3

RTHER INFOR	MATION COM	NTINUED	FRO	VI	PCT/I	SAV 210		•		
should the overcome.	problems	which	led	to	the	Article	17(2)	declaration	be	
		·								

INTERNATIONAL SEARCH REPORT

International Application No PERP 03/06551

A. CLASSIFICATION OF SUBJECT TER IPC 7 A61K31/4184 A61K31/4422 A61K45/06 A61P29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, BIOSIS, EMBASE, PASCAL, SCISEARCH

	Citation of document, with indication, where appropriate, of th	e mievant nassanes	Relevant to claim No.		
Category °	Citation of document, with indication, where appropriate, or the	e relevant passages	rielevan to dam ivo.		
x U	KRAYENBUHL J C ET AL: "Drug-d interactions of new active sub Mibefradil example" EUROPEAN JOURNAL OF CLINICAL P vol. 55, no. 8, October 1999 (pages 559-565, XP001153272 ISSN: 0031-6970 the whole document	stances: HARMACOLOGY,	1-12		
x V	US 6 358 706 B1 (ZHU JESSICA Y 19 March 2002 (2002-03-19) column 4, line 7 - line 11 column 5, line 24 - line 39	ET AL)	1-12		
χ Furti	ner documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.		
' Special ca	tegories of cited documents:	*T* later document published after the int or priority date and not in conflict with	n the application but		
'Special ca 'A' docume consid	ant defining the general state of the art which is not ered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	n the application but neory underlying the		
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INTERNATIONAL SEARCH REPORT

International Application No

		T U3/00351
	ation) DOCUMENTS CONSTREED TO BE RELEVANT	I Data and a second
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X 🗸	DOGRUL A ET AL: "L-type and T-type calcium channel blockade potentiate the analgesic effects of morphine and selective 'mu! opioid agonist, but not to selective 'delta! and 'kappa! agonist at the level of the spinal cord in mice" PAIN 2001 NETHERLANDS, vol. 93, no. 1, 2001, pages 61-68, XP001153273 ISSN: 0304-3959 abstract 'Discussion'	1-12 Do
X V	US 5 929 122 A (REIMANN WOLFGANG) 27 July 1999 (1999-07-27) column 1, line 21 - line 67 column 2, line 31 - column 3, line 18 claims	1-12 75
P, X 16.	EP 1 312 362 A (KOREA INST SCIENCE TECHNOLOGY) 21 May 2003 (2003-05-21) the whole document	1-12
A 🗸	MUTH J N ET AL: "Use of transgenic mice to study voltage-dependent Cachannels" TRENDS IN PHARMACOLOGICAL SCIENCES, ELSEVIER TRENDS JOURNAL, CAMBRIDGE, GB, vol. 22, no. 10, 1 October 2001 (2001-10-01), pages 526-532, XP004307622 ISSN: 0165-6147 the whole document	D2
A V	ANGUS J A ET AL: "Targetting voltage-gated calcium channels in cardiovascular therapy" LANCET, XX, XX, vol. 356, no. 9238, 14 October 2000 (2000-10-14), pages 1287-1289, XP004264172 ISSN: 0140-6736 the whole document ————	

2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

	ratent document d in search report		Publication date	•	Patent family member(s)		Publication date
US	6358706	B1	19-03-2002	AU CA EP JP TR WO	7871600 2389031 1224218 2003529337 200201119 0130844	A1 A1 T T2	08-05-2001 03-05-2001 24-07-2002 07-10-2003 21-11-2002 03-05-2001
US	5929122	A	27-07-1999	DE AU AU CA DE DK EP ES HU JP PT SI	726341 3998497 2217846 59705525 835656 2168562 1009400 9701618 10147520 7	T B2 A A1 D1 T3 A1 A2 A	07-05-1998 15-12-2001 02-11-2000 23-04-1998 09-04-1998 10-01-2002 11-02-2002 15-04-1998 16-06-2002 20-09-2002 28-01-1999 02-06-1998 31-05-2002 31-08-2002
EP	1312362	Α	21-05-2003	KR EP JP US	2003037081 / 1312362 / 2003137813 / 2003086980 /	A1 A	12-05-2003 21-05-2003 14-05-2003 08-05-2003

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